FIG. 1

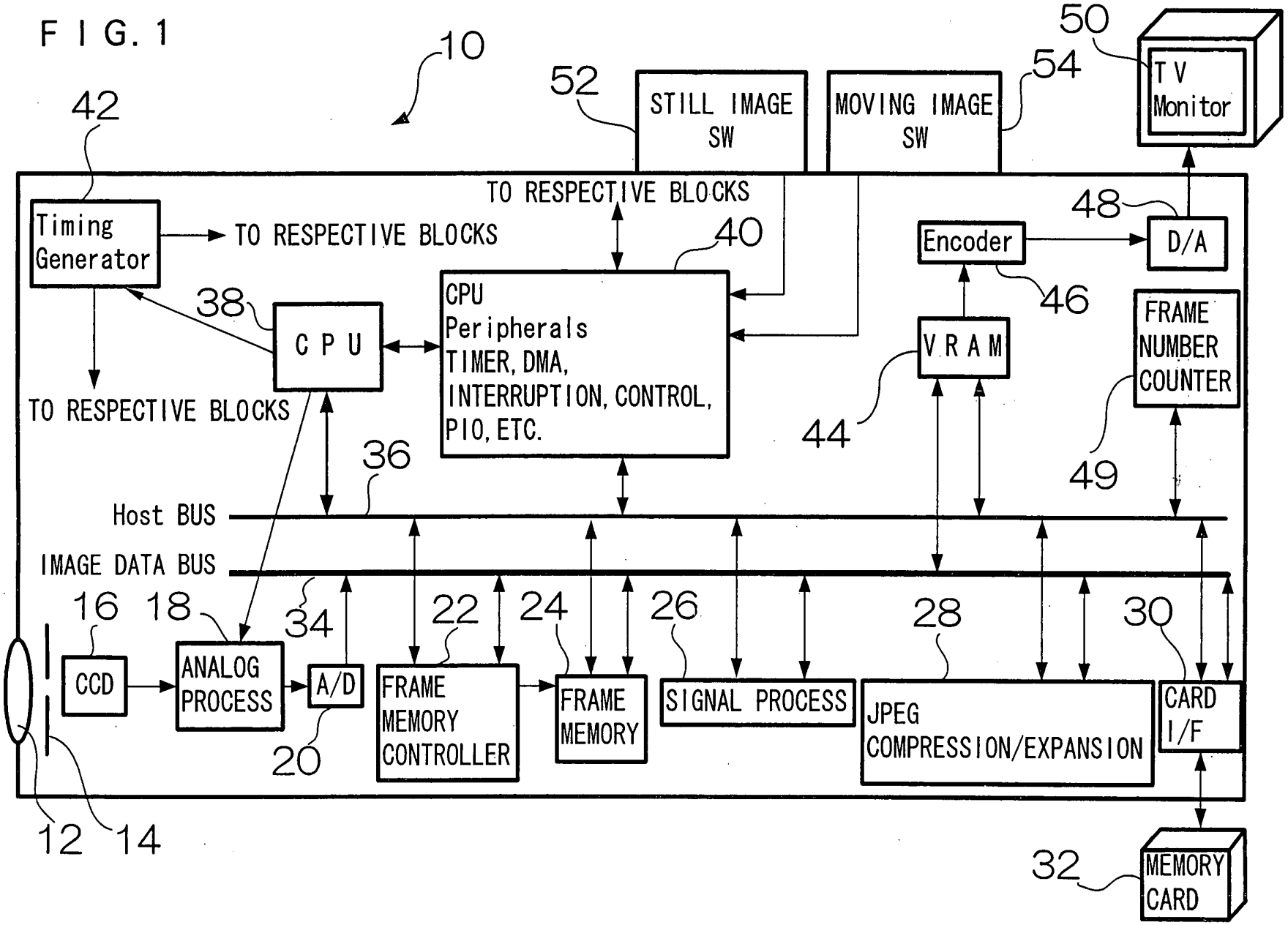

10
42
52
STILL IMAGE SW
MOVING IMAGE SW
54
50
TV Monitor
TO RESPECTIVE BLOCKS
Timing Generator
TO RESPECTIVE BLOCKS
40
48
D/A
Encoder
46
38
CPU
CPU Peripherals TIMER, DMA, INTERRUPTION, CONTROL, PIO, ETC.
VRAM
FRAME NUMBER COUNTER
TO RESPECTIVE BLOCKS
44
49
36
Host BUS
IMAGE DATA BUS
16
18
34
22
24
26
28
30
CCD
ANALOG PROCESS
A/D
20
FRAME MEMORY CONTROLLER
FRAME MEMORY
SIGNAL PROCESS
JPEG COMPRESSION/EXPANSION
CARD I/F
12
14
32
MEMORY CARD

FIG. 2

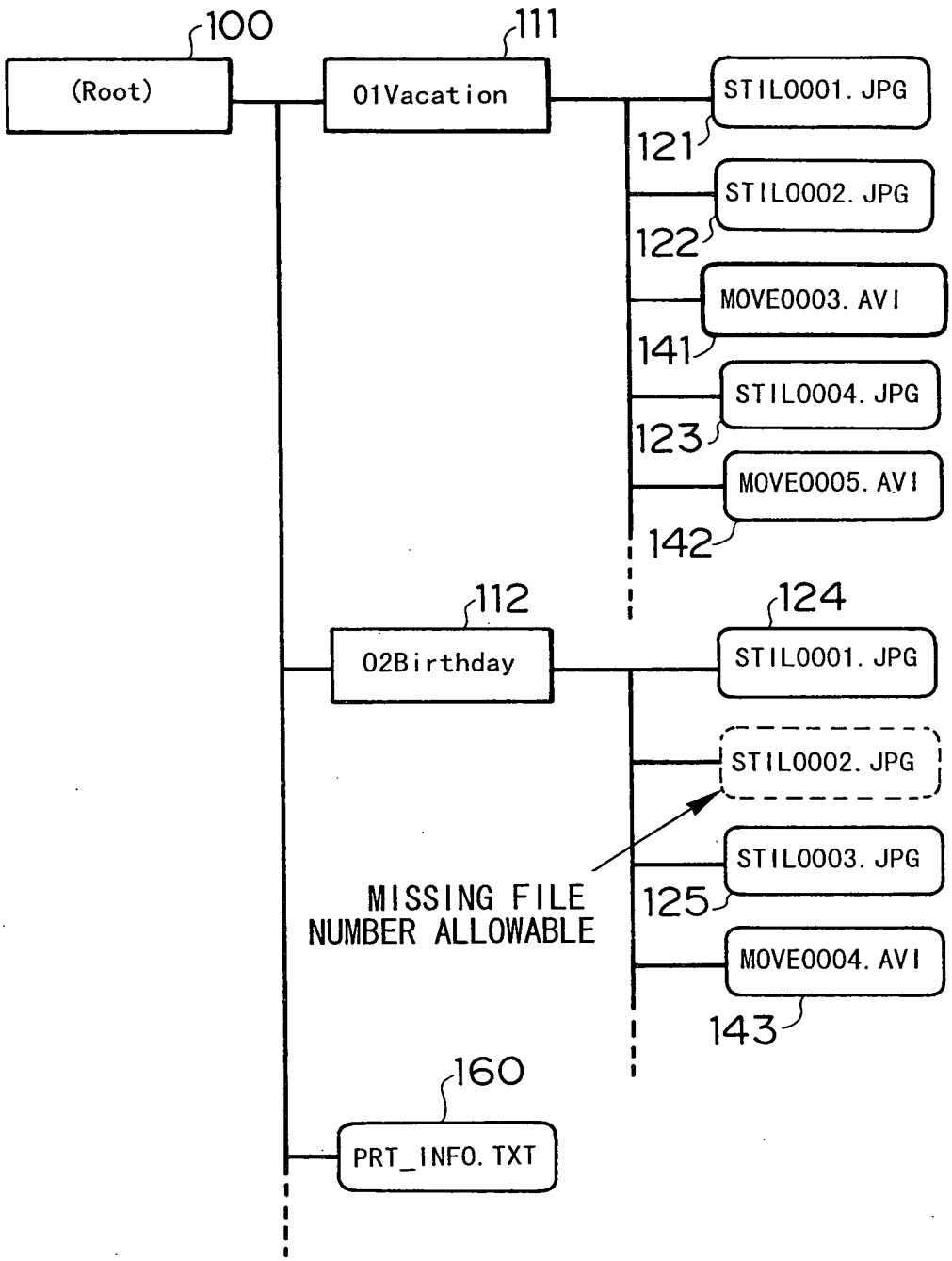

100
(Root)
111
01Vacation
STIL0001.JPG
121
STIL0002.JPG
122
MOVE0003.AVI
141
STIL0004.JPG
123
MOVE0005.AVI
142
112
02Birthday
124
STIL0001.JPG
STIL0002.JPG
MISSING FILE
NUMBER ALLOWABLE
STIL0003.JPG
125
MOVE0004.AVI
143
160
PRT_INFO.TXT

FIG. 3

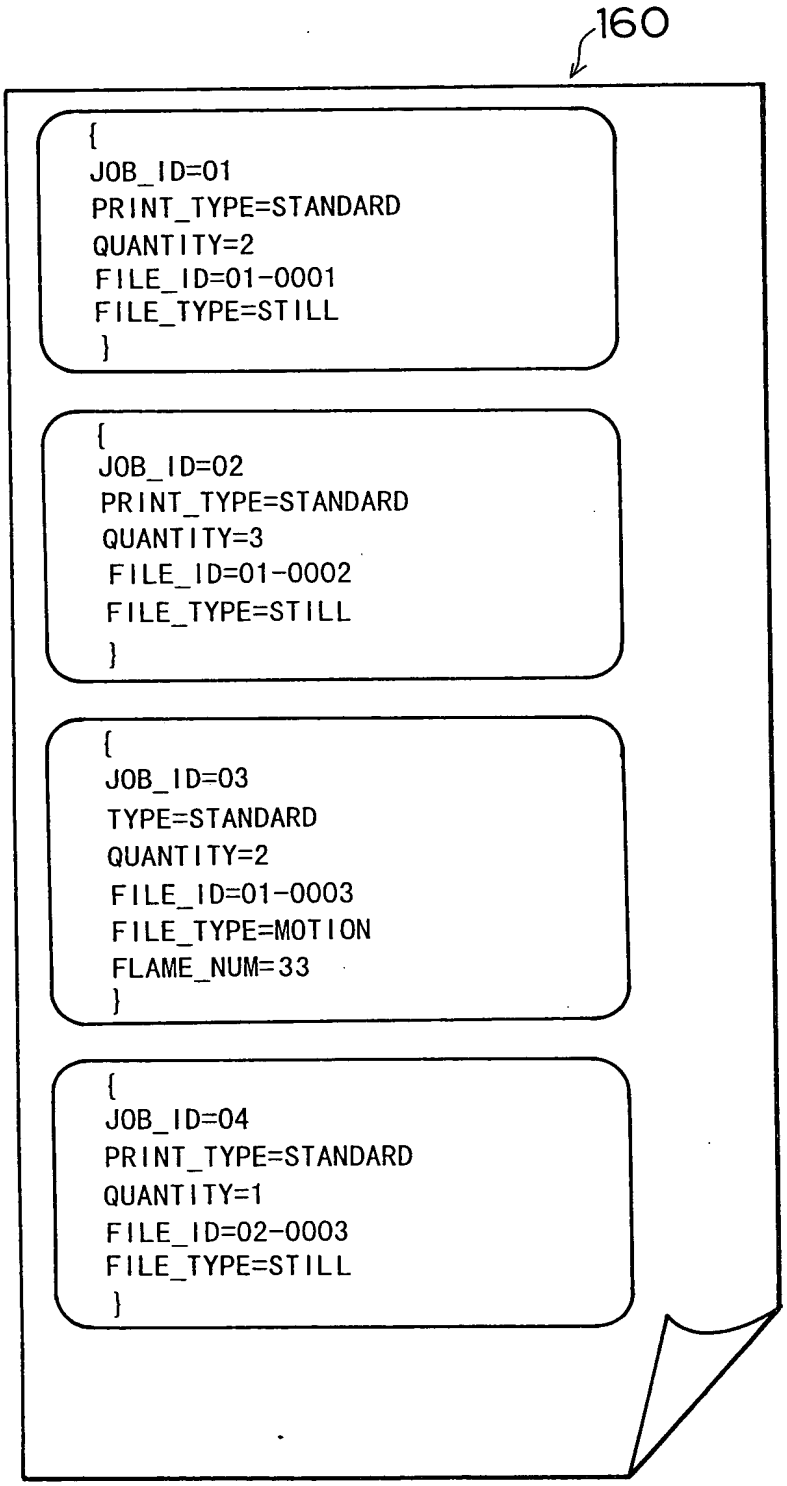

160
{
JOB_ID=01
PRINT_TYPE=STANDARD
QUANTITY=2
FILE_ID=01-0001
FILE_TYPE=STILL
}
{
JOB_ID=02
PRINT_TYPE=STANDARD
QUANTITY=3
FILE_ID=01-0002
FILE_TYPE=STILL
}
{
JOB_ID=03
TYPE=STANDARD
QUANTITY=2
FILE_ID=01-0003
FILE_TYPE=MOTION
FLAME_NUM=33
}
{
JOB_ID=04
PRINT_TYPE=STANDARD
QUANTITY=1
FILE_ID=02-0003
FILE_TYPE=STILL
}

FIG. 4

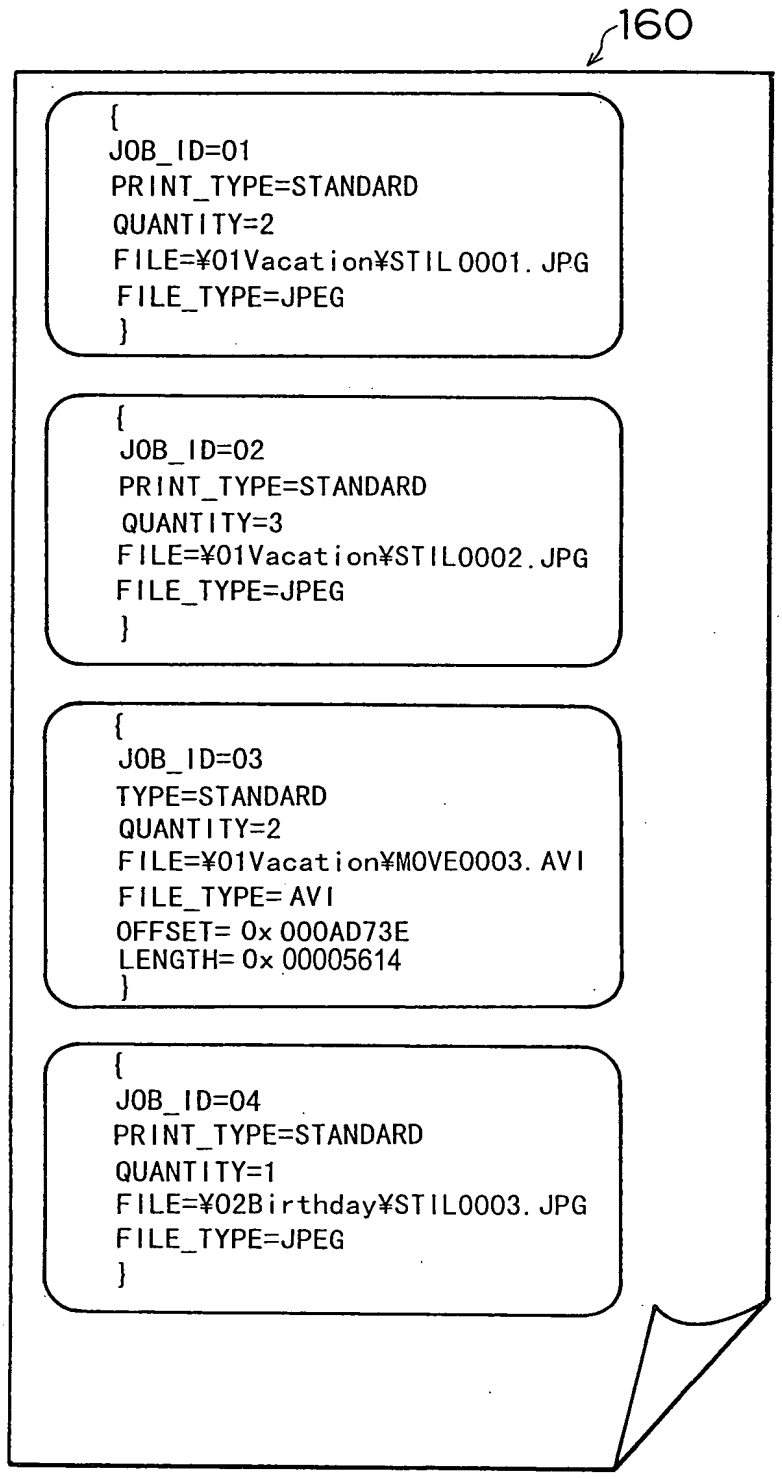
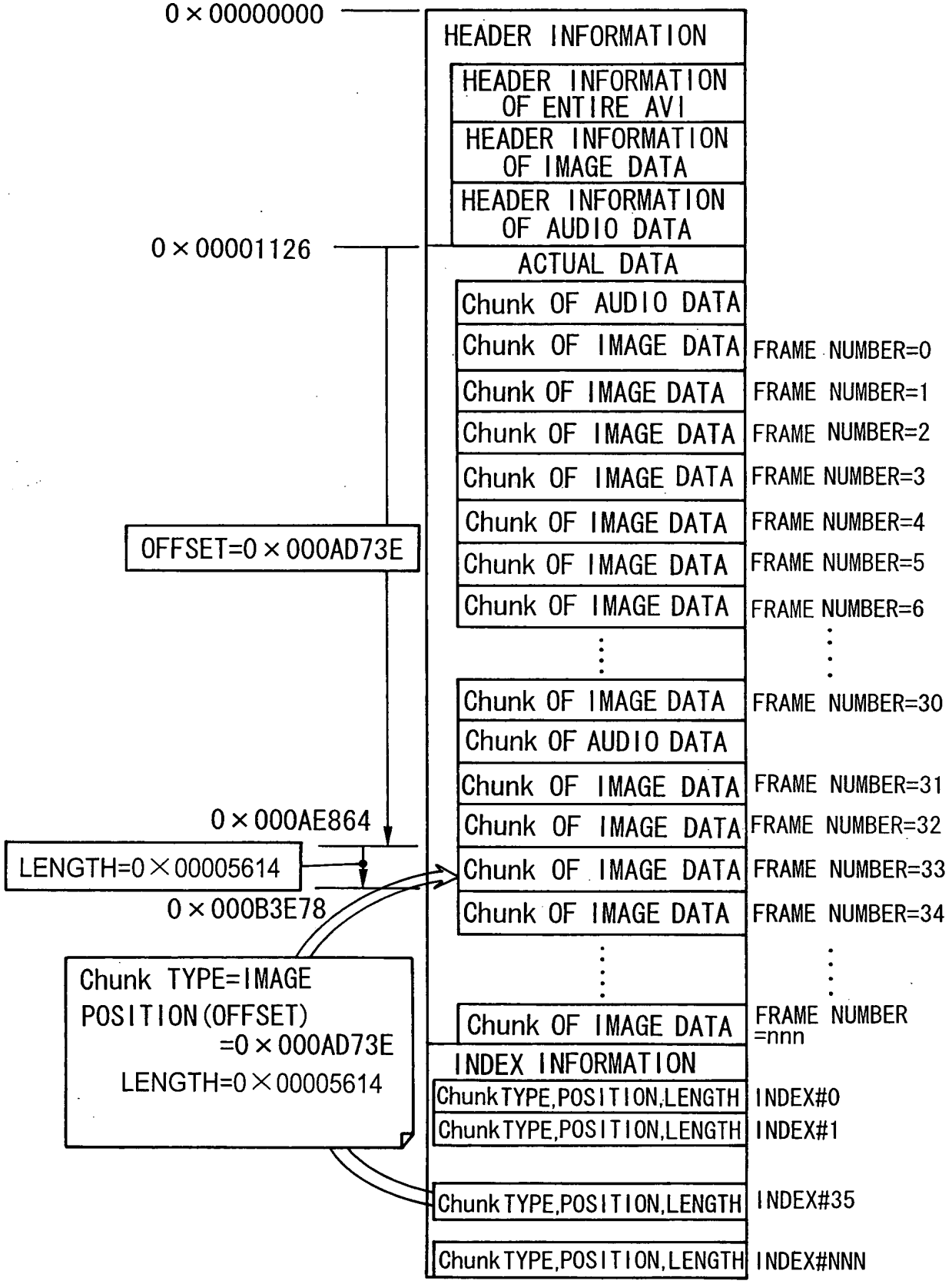

160
{
JOB_ID=01
PRINT_TYPE=STANDARD
QUANTITY=2
FILE=¥01Vacation¥STIL0001.JPG
FILE_TYPE=JPEG
}
{
JOB_ID=02
PRINT_TYPE=STANDARD
QUANTITY=3
FILE=¥01Vacation¥STIL0002.JPG
FILE_TYPE=JPEG
}
{
JOB_ID=03
TYPE=STANDARD
QUANTITY=2
FILE=¥01Vacation¥MOVE0003.AVI
FILE_TYPE=AVI
OFFSET=0x000AD73E
LENGTH=0x00005614
}
{
JOB_ID=04
PRINT_TYPE=STANDARD
QUANTITY=1
FILE=¥02Birthday¥STIL0003.JPG
FILE_TYPE=JPEG
}

FIG. 5


MOVING IMAGE FILE ADDRESS FROM TOP
0×00000000
HEADER INFORMATION
HEADER INFORMATION OF ENTIRE AVI
HEADER INFORMATION OF IMAGE DATA
HEADER INFORMATION OF AUDIO DATA
0×00001126
ACTUAL DATA
Chunk OF AUDIO DATA
Chunk OF IMAGE DATA
FRAME NUMBER=0
Chunk OF IMAGE DATA
FRAME NUMBER=1
Chunk OF IMAGE DATA
FRAME NUMBER=2
Chunk OF IMAGE DATA
FRAME NUMBER=3
Chunk OF IMAGE DATA
FRAME NUMBER=4
Chunk OF IMAGE DATA
FRAME NUMBER=5
Chunk OF IMAGE DATA
FRAME NUMBER=6
OFFSET=0×000AD73E
Chunk OF IMAGE DATA
FRAME NUMBER=30
Chunk OF AUDIO DATA
Chunk OF IMAGE DATA
FRAME NUMBER=31
0×000AE864
Chunk OF IMAGE DATA
FRAME NUMBER=32
LENGTH=0×00005614
Chunk OF IMAGE DATA
FRAME NUMBER=33
0×000B3E78
Chunk OF IMAGE DATA
FRAME NUMBER=34
Chunk TYPE=IMAGE
POSITION(OFFSET)
=0×000AD73E
LENGTH=0×00005614
Chunk OF IMAGE DATA
FRAME NUMBER =nnn
INDEX INFORMATION
ChunkTYPE,POSITION,LENGTH
INDEX#0
ChunkTYPE,POSITION,LENGTH
INDEX#1
ChunkTYPE,POSITION,LENGTH
INDEX#35
ChunkTYPE,POSITION,LENGTH
INDEX#NNN

006750 EP 1 424 560

FIG. 6

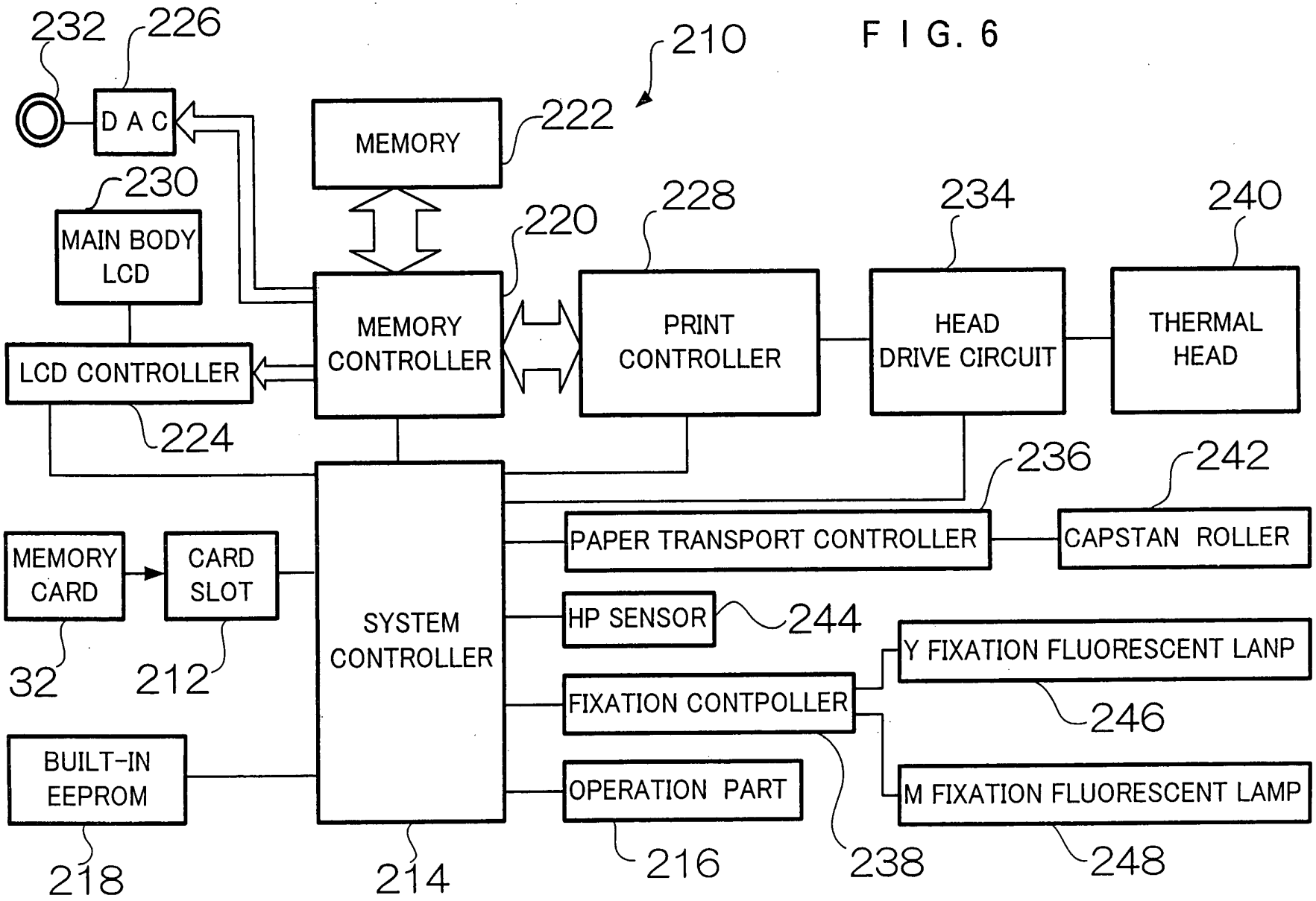


FIG. 7

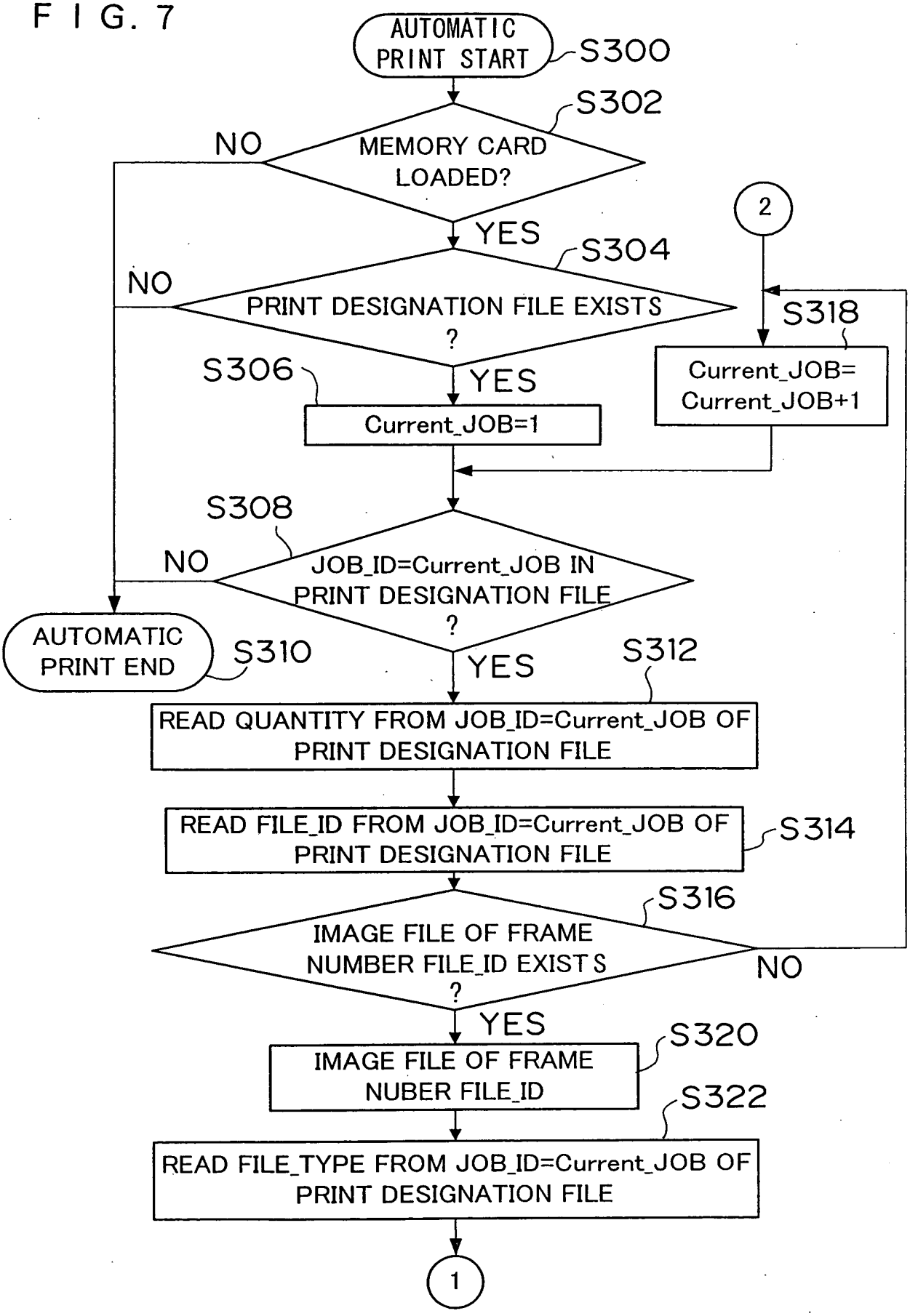
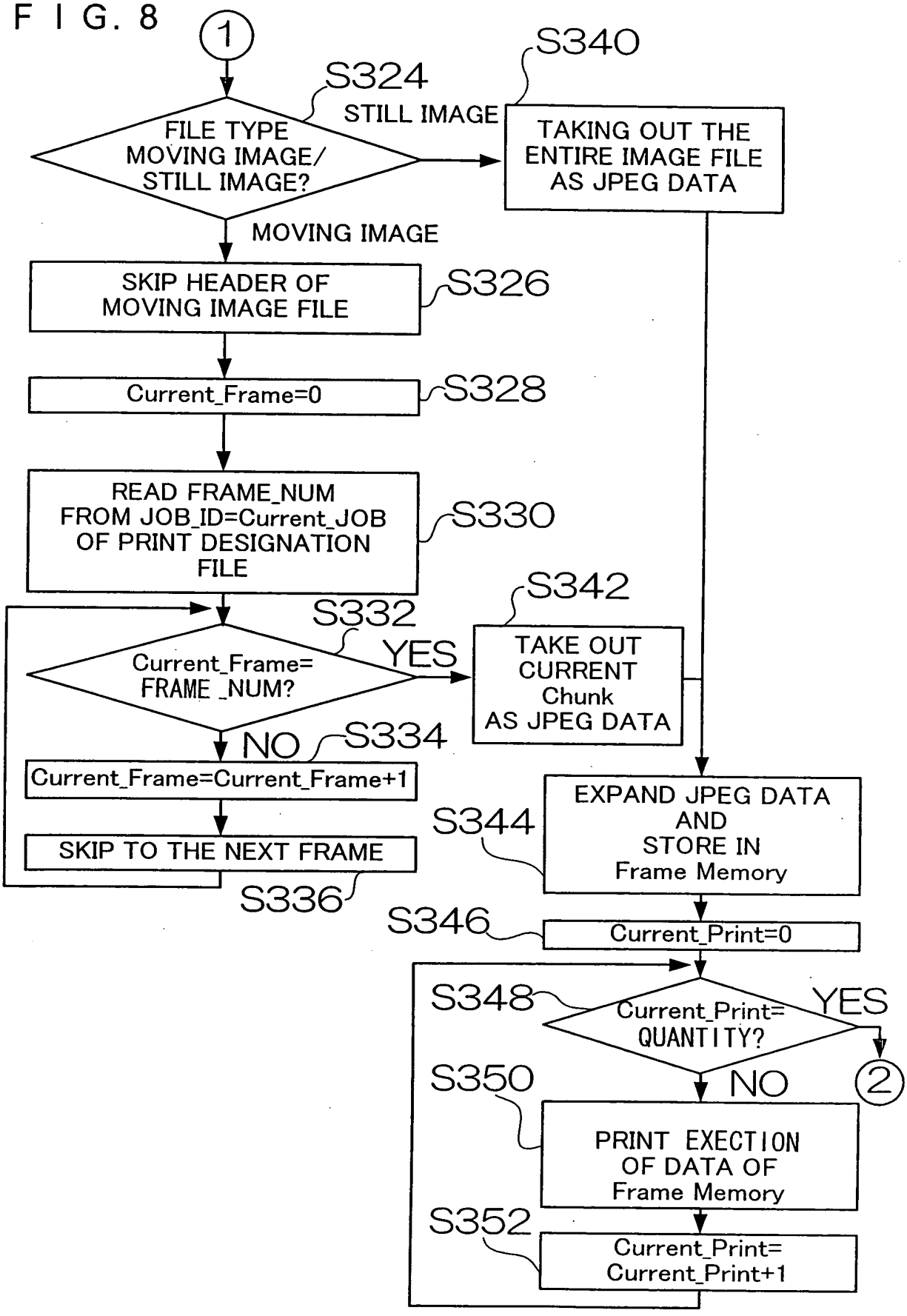

AUTOMATIC PRINT START
S300
S302
MEMORY CARD LOADED?
NO
YES
S304
PRINT DESIGNATION FILE EXISTS ?
NO
YES
2
S318
Current_JOB= Current_JOB+1
S306
Current_JOB=1
S308
JOB_ID=Current_JOB IN PRINT DESIGNATION FILE ?
NO
YES
AUTOMATIC PRINT END
S310
S312
READ QUANTITY FROM JOB_ID=Current_JOB OF PRINT DESIGNATION FILE
READ FILE_ID FROM JOB_ID=Current_JOB OF PRINT DESIGNATION FILE
S314
S316
IMAGE FILE OF FRAME NUMBER FILE_ID EXISTS ?
NO
YES
S320
IMAGE FILE OF FRAME NUBER FILE_ID
S322
READ FILE_TYPE FROM JOB_ID=Current_JOB OF PRINT DESIGNATION FILE
1

FIG. 8


1
S324
FILE TYPE MOVING IMAGE/ STILL IMAGE?
STILL IMAGE
S340
TAKING OUT THE ENTIRE IMAGE FILE AS JPEG DATA
MOVING IMAGE
SKIP HEADER OF MOVING IMAGE FILE
S326
Current_Frame=0
S328
READ FRAME_NUM FROM JOB_ID=Current_JOB OF PRINT DESIGNATION FILE
S330
S332
Current_Frame= FRAME _NUM?
YES
S342
TAKE OUT CURRENT Chunk AS JPEG DATA
NO
S334
Current_Frame=Current_Frame+1
SKIP TO THE NEXT FRAME
S336
S344
EXPAND JPEG DATA AND STORE IN Frame Memory
S346
Current_Print=0
S348
Current_Print= QUANTITY?
YES
2
NO
S350
PRINT EXECTION OF DATA OF Frame Memory
S352
Current_Print= Current_Print+1